

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Previously Presented):

A molding composition, comprising

a mixture of interpenetrating polymers comprising a first phase of a crosslinked isobutene polymer and a second phase of a reinforcing polymer which comprises (meth)acrylic and/or vinylaromatic units,

wherein the first phase comprises the reaction product of an isobutene polymer with an average of at least 1.4 functional groups in the molecule and of a crosslinking agent with an average of at least two functional groups in the molecule, and wherein the functionality of the functional groups of the crosslinking agent are complementary to the functionality of the functional groups of the isobutene polymer,

wherein the functional groups of the isobutene polymer are exclusively at the ends of the isobutene polymer,

wherein the isobutene polymer has a number-average molecular weight of from 500 to 50 000 prior to the crosslinking process; and

wherein the crosslinking agent is at least one of a diisocyanate and a polyisocyanate.

Claim 2 (Previously Presented): The molding composition according to claim 1, wherein the ratio by weight of the first phase to the second phase is from 5:95 to 80:20.

Claim 3 (Previously Presented): The molding composition according to claim 1, wherein the isobutene polymer comprises at least 80% by weight of isobutene units.

Claims 4-5 (Cancelled).

Claim 6 (Previously Presented): The molding composition according to claim 1, wherein the crosslinking agent has an average of at least 2.5 functional groups.

Claim 7 (Currently Amended): The molding composition according to claim 1, wherein the functional groups of the isobutene polymer and functional groups of the crosslinking agent ~~have been selected in~~ are pairs ~~[[from]] of~~ hydroxy/isocyanate groups ~~or olefinically unsaturated groups/hydrosilyl groups.~~

Claim 8 (Previously Presented): The molding composition according to claim 1, wherein the reinforcing polymer comprises styrene units and/or methyl methacrylate units.

Claim 9 (Previously Presented): The molding composition according to claim 1, wherein the reinforcing polymer comprises units of a crosslinking monomer.

Claim 10 (Previously Presented): The molding composition according to claim 8, wherein a ratio by weight of the first phase to the second phase is from 5:95 to 25:75, for use as impact-modified polystyrene or polymethyl methacrylate.

Claim 11 (Withdrawn): A process for preparing a molding composition according to claim 1, comprising: (i) polymerizing the monomers which form the structure of the reinforcing polymer by a free-radical route in the presence of the first phase; or (ii) mixing the isobutene polymer, the crosslinking agent, and the monomers which form the structure of the reinforcing polymer, wherein the reaction between the isobutene polymer and the

crosslinking agent and the free-radical polymerization of the monomers are initiated simultaneously or in succession.

Claim 12 (Cancelled).

Claim 13 (Withdrawn): A process for the bonding of at least two moldings molded from the molding composition according to claim 1, comprising:

- (i) preparing a curable mixture composed of an isobutene polymer defined in claim 1 and of a crosslinking agent defined in claim 1;
- (ii) bringing the mixture into contact with those surfaces of the moldings that are to be bonded; and
- (iii) permitting the mixture to cure fully.

Claim 14 (Previously Presented): A material or molding for the roofing of buildings comprising the molding composition of claim 1.

Claim 15 (Previously Presented): The molding composition according to claim 1, wherein the functional groups of the isobutene polymer have hydroxyl groups and the crosslinking agent is a diisocyanate.

Claim 16 (Previously Presented): The molding composition according to claim 1, wherein the polybutene polymer is a dihydroxy polybutene and the crosslinking agent is a polyisocyanate.

Claim 17 (Previously Presented): The molding composition according to claim 1, wherein the crosslinking agent comprises one or more groups selected from the group consisting of 1,4-diisocyanato butane, 1,6-diisocyanato hexane, 1,6-diisocyanato-2,2,4-trimethyl hexane, diisocyanato cyclohexane, and isophorone diisocyanate.

Claim 18 (Previously Presented): The molding composition according to claim 1, wherein the reinforcing polymer comprises at least one of polyisobutene and polystyrene.

Claim 19 (New): The molding composition according to claim 1, wherein the isobutene polymer of the first phase is crosslinked through the functional groups of the isobutene molecules and the functional groups of the crosslinking agent.

Claim 20 (New): The molding composition according to claim 1, wherein the mixture of interpenetrating polymers is obtained by concurrently crosslinking the isobutene polymer with the crosslinking agent and polymerizing the (meth)acrylic and/or vinyl aromatic units of the reinforcing polymer.

Claim 21 (New): The molding composition according to claim 1, which is obtained by first crosslinking the isobutene polymer with the crosslinking agent in the presence of the (meth)acrylic and/or vinyl aromatic units, then polymerizing the (meth)acrylic and/or vinyl aromatic units.